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Key

IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

1. **A comparison study of the uplink performance of W-CDMA and OFDM for mobile multimedia communications via LEO satellites**
   Papathanassiou, A.; Salkintzis, A.K.; Mathiopoulos, P.T.;
   Personal Communications, IEEE [see also IEEE Wireless Communications]
   Volume 8, Issue 3, June 2001 Page(s):35 - 43
   Digital Object Identifier 10.1109/98.930095
   Summary: This article presents a comparison study of the uplink performance of two well-known transmission schemes, W-CDMA and OFDM, for mobile multimedia communications via LEO satellite. In order to provide a framework for a fair comparison we have consider.....
   AbstractPlus | References | Full Text: PDF(144 KB) IEEE JNL
   Rights and Permissions

2. **The effects of cache organizations on the performance of on-demand routing protocols in ad hoc networks**
   Wenjing Lou; Yuguang, F.;
   MILCOM 2002. Proceedings
   Volume 1, 7-10 Oct. 2002 Page(s):254 - 259 vol.1
   Digital Object Identifier 10.1109/MILCOM.2002.1180449
   Summary: Route caching strategy is important in an on-demand routing protocol in wireless mobile ad hoc networks. While high routing overhead usually has a significant performance impact in low bandwidth wireless network, a good route caching strategy can red.....
   AbstractPlus | Full Text: PDF(688 KB) IEEE CNF
   Rights and Permissions

3. **Particle-induced bit errors in high performance fiber optic data links for satellite data management**
   Marshall, P.W.; Dale, C.J.; Carts, M.A.; LaBel, K.A.;
   Nuclear Science, IEEE Transactions on
   Volume 41, Issue 6, Part 1, Dec 1994 Page(s):1958 - 1965
   Digital Object Identifier 10.1109/23.340530
   Summary: Experimental test methods and analysis tools are demonstrated to assess particle-induced bit errors on fiber optic link receivers for satellites. Susceptibility to direct ionization from low LET particles is quantified by analyzing proton and helium .....
   AbstractPlus | Full Text: PDF(644 KB) IEEE JNL
   Rights and Permissions

4. **Cell design for a broadband CDMA personal communications network**
Milstein, L.B.; Schilling, D.L.; Pickholtz, R.L.; Erceg, V.; Kullback, M.; Abdelatif, N.; Smith, T.D.; Metcalfe, W.H.;
Communications, 1992. ICC 92, Conference record, SUPERCOMM/ICC '92, Discovering a New World of Communications, IEEE International Conference on
14-18 June 1992 Page(s):865 - 869 vol.2
Digital Object Identifier 10.1109/ICC.1992.268162
Summary: The results of field tests consisting of propagation measurements using broadband code division multiple access (B-CDMA) waveforms are described. B-CDMA operates in the 1850-1990 MHz frequency band. The spreading code rate is 24 Mchips/s, which occup.....
AbstractPlus | Full Text: PDF(284 KB) IEEE CNF
Rights and Permissions

5. **WebGuard: Web based adult content detection and filtering system**
Hammami, M.; Chahir, Y.; Chen, L.;
Web Intelligence, 2003. WI 2003. Proceedings. IEEE/WIC International Conference on
13-17 Oct. 2003 Page(s):574 - 578
Summary: We describe a Web filtering system "WebGuard", which aims to automatically detect and filter adult content on the Web. WebGuard uses Web crawler to extract relevant data from the Web, combines the textual content, the image content, and the URL name .....
AbstractPlus | Full Text: PDF(374 KB) IEEE CNF
Rights and Permissions

6. **Comparison of low-cost fiber optic technologies for data transmission**
Ritter, M.B.; Trewhella, J.M.; Kuchta, D.M.; Oprysko, M.M.;
Electronic Components and Technology Conference, 1997. Proceedings., 47th
18-21 May 1997 Page(s):19 - 24
Digital Object Identifier 10.1109/ECTC.1997.606128
Summary: This paper presents a comparison of technologies for low-cost fiber-optic data transmission links. Previous authors have recognized the need for low-cost links. By contrast, there has been little written of the trade-offs in link cost/performance amo.....
AbstractPlus | Full Text: PDF(676 KB) IEEE CNF
Rights and Permissions

7. **Reproduced and emergent genres of communication on the World-Wide Web**
Crowston, K.;
System Sciences, 1997, Proceedings of the Thirtieth Hawaii International Conference on
Volume 6, 7-10 Jan. 1997 Page(s):30 - 39 vol.6
Digital Object Identifier 10.1109/HICSS.1997.665482
Summary: The World Wide Web is growing quickly and being applied to many new types of communications. As a basis for studying organizational communications, Yates and Orlikowski (1992) proposed using genres. They defined genres as, “typified communicati.....
AbstractPlus | Full Text: PDF(1028 KB) IEEE CNF
Rights and Permissions

8. **A time varying filtering theory for constrained traffic regulation and dynamic service guarantees**
Cheng-Shang Chang; Cruz, R.L.;
INFOCOM '99. Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE
Volume 1, 21-25 March 1999 Page(s):63 - 70 vol.1
Digital Object Identifier 10.1109/INFCOM.1999.749253
Summary: By extending the filtering theory under the (min, +)-algebra to the time varying setting, we solve the problem of constrained traffic regulation and develop a calculus for dynamic service guarantees. For a constrained traffic regulation problem with .....
AbstractPlus | Full Text: PDF(740 KB) IEEE CNF
Rights and Permissions

☐ **9. Transmission modelling of ENCAP-OQPSK radio links**
Gusmao Correia, A.; Goncalves, V.; Esteves, N.;
Communications, IEE Proceedings-
Volume 145, Issue 6, Dec. 1998 Page(s):419 - 425
Summary: Offset quaternary PSK-type (OQPSK) digital modulation schemes are strongly recommended for radio transmission within land mobile and/or satellite communication systems requiring good power/bandwidth tradeoffs and low-cost, power-efficient implementat.....
AbstractPlus | Full Text: PDF(540 KB) IET JNL

☐ **10. Towards holistic Web-based information retrieval: an agent-based approach**
Kwang Mong Sim;
Web Intelligence, 2003. WI 2003. Proceedings. IEEE/WIC International Conference on
13-17 Oct. 2003 Page(s):39 - 46
Summary: We present an agent-based system for bolstering holistic information retrieval via the WWW. In Ellis' holistic model of information seeking behaviors, the information seeking activities include: selection of sources, browsing and differentiating, mon.....
AbstractPlus | Full Text: PDF(299 KB) IEEE CNF
Rights and Permissions

☐ **11. Deep Web structure**
Singh, M.P.;
Internet Computing, IEEE
Volume 6, Issue 5, Sept.-Oct. 2002 Page(s):4 - 5
Digital Object Identifier 10.1109/MIC.2002.1036032
Summary: Our current understanding of Web structure is based on large graphs created by centralized crawlers and indexers. They obtain data almost exclusively from the so-called surface Web, which consists, loosely speaking, of interlinked HTML pages. The dee.....
AbstractPlus | References | Full Text: PDF(245 KB) IEEE JNL
Rights and Permissions

☐ **12. Bit error rate floors in coherent optical systems with delay demodulation**
Jacobsen, G.; Jensen, B.; Garrett, I.; Waite, J.B.;
Electronics Letters
Volume 25, Issue 21, 12 Oct. 1989 Page(s):1425 - 1427
Digital Object Identifier 10.1049/el:19890951
Summary: Reports the results of an accurate analysis of the effect of filtering on phase noise, appropriate to coherent optical receivers with delay demodulation. Based on a numerical solution of a Fokker-Planck equation, the authors show that the phase at th.....
AbstractPlus | Full Text: PDF(308 KB) IET JNL

☐ **13. Intelligent techniques for electronic component and system alignment**
Grant, P.M.; Mirzai, A.R.; Brown, K.E.; Crawford, T.M.;
Electronics & Communication Engineering Journal
Volume 1, Issue 1, Jan.-Feb. 1989 Page(s):23 - 32
Summary: The application of intelligent systems is investigated for the automatic tuning of microwave waveguide filters and the alignment of quadrature-amplitude-modulated (QAM) digital microwave radio equipment. The intelligent techniques include conventiona.....
AbstractPlus | Full Text: PDF(792 KB) IET JNL

☐ **14. Impact of rate control on the capacity of an Iub link: single service case**
Saraydar, C.; Abraham, S.; Chuah, M.; Sampath, A.;
Communications, 2003. ICC '03. IEEE International Conference on
Volume 2, 11-15 May 2003 Page(s):954 - 958 vol.2
Summary: Universal Mobile Telecommunications System (UMTS) networks are capable of serving packet-switched data applications at bit rates as high as 384 kbps. This paper studies the capacity and utilization of the downlink of the Iub interface, which lies bet.....
AbstractPlus | Full Text: PDF(300 KB) IEEE CNF
Rights and Permissions

☐ **15. Performance evaluation of the DOCSIS 1.1 MAC protocol according to the structure of a MAP message**
Sung-Hyun Cho; Jae-Hyun Kim; Sung-Han Park;
Communications, 2001. ICC 2001. IEEE International Conference on
Volume 6, 11-14 June 2001 Page(s):1786 - 1791 vol.6
Digital Object Identifier 10.1109/ICC.2001.937099
Summary: In the Data Over Cable Service Interface Specification (DOCSIS) RFI v1.1, the control message, called MAP, is used to schedule the uplink radio frequency between the cable modem (CM) and the cable modem termination system (CMTS). We find out the appr.....
AbstractPlus | Full Text: PDF(708 KB) IEEE CNF
Rights and Permissions

☐ **16. Handshake protocols and adaptive modulation for underwater communications networks**
Green, M.D.; Rice, J.A.;
OCEANS '98 Conference Proceedings
Volume 1, 28 Sept.-1 Oct. 1998 Page(s):487 - 491 vol.1
Digital Object Identifier 10.1109/OCEANS.1998.725795
Summary: The US Navy telesonar RDT&E effort is advancing methods for asynchronous, multi-access, networked communications in littoral waters. The goal is to provide wireless, battery-powered connectivity in adverse, shallow-water channels while maintainin.....
AbstractPlus | Full Text: PDF(540 KB) IEEE CNF
Rights and Permissions

☐ **17. Precision pointing error analysis in a satellite optical communication optical system**
Trent, V.; Greene, M.; Hung, S.;
System Theory, 1990., Twenty-Second Southeastern Symposium on
11-13 March 1990 Page(s):190 - 194
Digital Object Identifier 10.1109/SSST.1990.138136
Summary: The authors present details of the design considerations for two candidate precision pointing and tracking control subsystems proposed for use in an optical intersatellite communication system. In addition, disturbance effects are identified, and app.....
AbstractPlus | Full Text: PDF(276 KB) IEEE CNF
Rights and Permissions

☐ **18. Accommodation of feeder-links of non-geostationary satellites for personal communications in frequency bands allocated to the fixed-satellite service**
Reed, A.G.;
Satellite Systems for Mobile Communications and Navigation, 1996., Fifth International Conference on
13-15 May 1996 Page(s):93 - 96
Summary: Stimulated by industrial developments towards personal communications links via constellations of non-geostationary (NGSO) satellites, the Administrative Radio Conference of 1992 made allocations to the mobile-satellite service (MSS) in the range 1-3.....
AbstractPlus | Full Text: PDF(368 KB) IET CNF

☐ **19. Hidden Markov models for burst error characterization in indoor radio channels**
Garcia-Frias, J.; Crespo, P.M.;
Vehicular Technology, IEEE Transactions on
Volume 46, Issue 4, Nov. 1997 Page(s):1006 - 1020
Digital Object Identifier 10.1109/25.653074
Summary: Many digital communication channels exhibit statistical dependencies among errors. The design of error control schemes for such channels and their performance evaluation is simplified if appropriate generative models of the overall communication link.....
AbstractPlus | References | Full Text: PDF(356 KB) IEEE JNL
Rights and Permissions

☐ **20. Generation of an altimetrical data base using a geographic information system [mobile radio planning]**
Bussolino, G.; Gilio, E.; Lo Gatto, E.; Missan, B.;
Communications and Vehicular Technology in the Benelux, 1994., IEEE Second Symposium on
2-3 Nov. 1994 Page(s):44 - 51
Digital Object Identifier 10.1109/SCVT.1994.574143
Summary: This paper aims at illustrating a methodology of generation of an altimetrical data base for mobile radio applications and a procedure developed to manage it, using a GIS (Geographic Information System). The system uses as input a set of digitized ma.....
AbstractPlus | Full Text: PDF(972 KB) IEEE CNF
Rights and Permissions

☐ **21. A reduced complexity digital multicarrier demodulator for satellite communication systems**
Del Re, E.; Fantacci, R.;
Satellite Systems for Mobile Communications and Navigation, 1988., Fourth International Conference on
17-19 Oct 1988 Page(s):249 - 253
Summary: The design of a completely digital multicarrier demodulator (MCD) for application in advanced satellite communication systems is presented. The proposed MCD has two parts: the demultiplexer (DEMUX) and the coherent demodulator (DEMOD). In particular,.....
AbstractPlus | Full Text: PDF(332 KB) IET CNF

☐ **22. A time-domain optical transmission system simulation package accounting for nonlinear and polarization-related effects in fiber**
Carena, A.; Curri, V.; Gaudino, R.; Poggiolini, P.; Benedetto, S.;
Selected Areas in Communications, IEEE Journal on
Volume 15, Issue 4, May 1997 Page(s):751 - 765
Digital Object Identifier 10.1109/49.585785
Summary: The fast-paced evolution of long-haul and high-bit-rate terrestrial and submarine optical transmission links requires powerful analysis tools that take into account all the relevant phenomena in the fiber. To provide such a tool, we developed a time-.....
AbstractPlus | References | Full Text: PDF(504 KB) IEEE JNL
Rights and Permissions

☐ **23. Planning for regional medical control communications**
Bauer, C.R.;
Vehicular Technology, IEEE Transactions on
Volume 28, Issue 4, Nov 1979 Page(s):287 - 291
Summary: The passage of the Emergency Medical Services Systems Act of 1973 by Congress provided the mechanism and funds for communities to develop regional emergency medical service (EMS) delivery systems across the nation. The communications system which was.....
AbstractPlus | Full Text: PDF(520 KB) IEEE JNL
Rights and Permissions

☐ **24. Optimal configuration of discrete-value dispersion compensator modules for a given dispersion map in a fiber optic communication link**
Premaratne, M.; Premaratne, P.;
Lasers and Electro-Optics, 2003. CLEO/Pacific Rim 2003. The 5th Pacific Rim Conference on
Volume 1, 15-19 Dec. 2003 Page(s):7 Vol.1
Digital Object Identifier 10.1109/CLEOPR.2003.1274491
Summary: Given a dispersion map, selecting an appropriate combination of discrete-value dispersion compensation modules (DV-DCMs) with minimum cost from an available set of DV-DCMs is a NP-hard problem. We formulate this problem and derive a novel dynamic pro.....
AbstractPlus | Full Text: PDF(189 KB) IEEE CNF
Rights and Permissions

☐ **25. Digital approach for cochlea's stimulation : a programmable micro stimulator driven by a flexible speech processing**
Ben Hamida, A.; Ghorbel, M.;
Engineering in Medicine and Biology Society, 2001. Proceedings of the 23rd Annual International Conference of the IEEE
Volume 4, 25-28 Oct. 2001 Page(s):3235 - 3238 vol.4
Summary: We describe in this work a digital approach for cochlear stimulation. This would concern the design of an electronic micro-stimulator as well as the speech processing dedicated to drive this device. The design was versatile and numerical, that's why .....
AbstractPlus | Full Text: PDF(517 KB) IEEE CNF
Rights and Permissions

☐ **26. Microwave analog-to-digital converters for broadband communications**
Frazier, G.;
Emerging Technologies Symposium: Broadband, Wireless Internet Access, 2000 IEEE
10-11 April 2000 Page(s):1 pp.
Digital Object Identifier 10.1109/ETS.2000.916832
Summary: Summary form only given. Microwave A/D and D/A converters enable digital RF systems where virtually all information is processed or generated by direct digital means. A complete receiver link can consist of a sensor (e.g. antenna or photodetector), a.....
AbstractPlus | Full Text: PDF(36 KB) IEEE CNF
Rights and Permissions

☐ **27. Spreading code adaptation for DS-CDMA with multipath**
Rajappan, G.S.; Honig, M.L.;
MILCOM 2000. 21st Century Military Communications Conference Proceedings
Volume 2, 22-25 Oct. 2000 Page(s):1164 - 1168 vol.2
Digital Object Identifier 10.1109/MILCOM.2000.904110
Summary: We examine joint transmitter and receiver adaptation in a peer-to-peer direct sequence (DS)-code division multiple access (CDMA) system with multipath. The multipath channel is modeled as frequency-selective, slow fading, and each user adapts indepen.....
AbstractPlus | Full Text: PDF(424 KB) IEEE CNF
Rights and Permissions

☐ **28. Metaphorical perspectives on hypertext**
Selber, S.A.;
Professional Communication, IEEE Transactions on
Volume 38, Issue 2, June 1995 Page(s):59 - 67
Digital Object Identifier 10.1109/47.387769
Summary: This paper examines the dominant metaphors that define and describe three basic components of hypertext (texts, nodes, and links), arguing that they contribute in central ways to the current treatment of this technology in technical communication. It.....
AbstractPlus | Full Text: PDF(1116 KB) IEEE JNL
Rights and Permissions

☐ **29. A delay independent decorrelating detector for quasi-synchronous CDMA**
van Heeswyk, F.; Falconer, D.D.; Sheikh, A.U.H.;
Selected Areas in Communications, IEEE Journal on
Volume 14, Issue 8, Oct. 1996 Page(s):1619 - 1626
Digital Object Identifier 10.1109/49.539416
Summary: The decorrelating detector is a near-far resistant linear joint detector for a code-division multiple-access (CDMA) system. It consists of a bank of matched filters followed by a decorrelating matrix. For proper operation, both the matched filter ban.....
AbstractPlus | References | Full Text: PDF(744 KB) IEEE JNL
Rights and Permissions

☐ **30. Design of power control mechanisms with PCM realization for the uplink of a DS-CDMA cellular mobile radio system**
Chung-Ju Chang; Jeh-Ho Lee; Fang-Ching Ren;
Vehicular Technology, IEEE Transactions on
Volume 45, Issue 3, Aug. 1996 Page(s):522 - 530
Digital Object Identifier 10.1109/25.533767
Summary: Power control (PC) is an important issue in a direct sequence-code division multiple access (DS-CDMA) cellular mobile radio system. Higher link performance and greater system capacity cannot be achieved unless an appropriate PC mechanism is employed.....
AbstractPlus | References | Full Text: PDF(856 KB) IEEE JNL
Rights and Permissions

☐ **31. Performance of Maximum-Likelihood Receiver in the Nonlinear Satellite Channel**
Herrmann, G.;
Communications, IEEE Transactions on [legacy, pre - 1988]
Volume 26, Issue 3, Mar 1978 Page(s):373 - 378
Summary: A computer-simulation algorithm is described for calculating the performance of a maximum-likelihood (ML) receiver in the nonlinear satellite communications channel. It is assumed that performance is dominated by isolated single errors and that the c.....
AbstractPlus | Full Text: PDF(752 KB) IEEE JNL
Rights and Permissions

☐ **32. Application of complementary sequences in indoor wireless infrared communications**
Wong, K.K.; O'Farrell, T.;
Optoelectronics, IEE Proceedings -
Volume 150, Issue 5, 17 Oct. 2003 Page(s):453 - 464
Digital Object Identifier 10.1049/ip-opt:20030928
Summary: The performance of a direct sequence spread spectrum based infrared wireless communication system in multipath channels depends very much on the aperiodic correlation properties of the spreading sequences used. Ideally, the aperiodic auto-correlation.....
AbstractPlus | Full Text: PDF(349 KB) IET JNL

☐ **33. Multiple subcarrier modulation for infrared wireless systems using punctured convolutional codes and variable amplitude block codes**
Yamaguchi, H.; Ohtsuki, T.; Sasase, L.;
Global Telecommunications Conference, 2002. GLOBECOM '02. IEEE
Volume 3, 17-21 Nov. 2002 Page(s):2031 - 2035 vol.3
Digital Object Identifier 10.1109/GLOCOM.2002.1188987
Summary: We propose multiple subcarrier modulation (MSM) for infrared wireless systems using punctured convolutional codes and variable amplitude block codes. The rate-compatible punctured convolutional (RCPC) code deletes the coded bits corresponding to zero.....
AbstractPlus | Full Text: PDF(400 KB) IEEE CNF
Rights and Permissions

☐ **34. A personalized Web search engine using fuzzy concept network with link structure**
Kyung-Joong Kim; Sung-Bae Cho;
IFSA World Congress and 20th NAFIPS International Conference, 2001. Joint 9th
Volume 1, 25-28 July 2001 Page(s):81 - 86 vol.1
Digital Object Identifier 10.1109/NAFIPS.2001.944231
Summary: There has been much research on link-based search engines such as google and clever. They use link structure to find precision result. Usually, a link-based search engine produces higher-quality results than a text-based search engine. However, they .....
AbstractPlus | Full Text: PDF(388 KB) IEEE CNF
Rights and Permissions

☐ **35. Informed consent in distributed cognitive systems: The role of conflict type, time pressure, and trust [aircraft pilots]**
Olson, W.A.; Sarter, N.B.;
Digital Avionics Systems Conference, 1999. Proceedings. 18th
Volume 1/17 pp. vol.1, 24-29 Oct. 1999 Page(s):4.B.1-1 - 4.B.1-6 vol.1
Digital Object Identifier 10.1109/DASC.1999.863724
Summary: In order to better understand the impact of these factors, this study examined conflict detection as a function of data link gating, time pressure, display design (graphic vs. text), and the nature of the conflict (goal vs. implementation conflict). .....
AbstractPlus | Full Text: PDF(416 KB) IEEE CNF
Rights and Permissions

☐ **36. High-fidelity lightwave transmission of multiple AM-VSB NTSC signals**
Lipson, J.; Upadhyayula, L.C.; Huang, S.-Y.; Roxlo, C.B.; Flynn, E.J.; Nitzsche, P.M.; McGrath, C.J.; Fenderson, G.L.; Schaefer, M.S.;
Microwave Theory and Techniques, IEEE Transactions on
Volume 38, Issue 5, May 1990 Page(s):483 - 493
Digital Object Identifier 10.1109/22.54915
Summary: The progress towards developing AM lightwave links for the transmission of multiple TV signals is reported. While the signal-quality objectives and transmission distances are appropriate for CATV trunking, the technology is expected to have applicabi.....
AbstractPlus | Full Text: PDF(796 KB) IEEE JNL
Rights and Permissions

☐ **37. A framework for mapping periodic real-time applications on multicomputers**
Shukla, S.B.; Agrawal, D.P.;
Parallel and Distributed Systems, IEEE Transactions on
Volume 5, Issue 7, July 1994 Page(s):778 - 784
Digital Object Identifier 10.1109/71.296323
Summary: This short paper presents a framework for periodic execution of task-flow graphs that enables schedulability analysis of the communication requirements. The analysis performs the steps of segmenting messages, assigning the segments to specific links .....
AbstractPlus | Full Text: PDF(644 KB) IEEE JNL
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☐ **38. Image compression and transmission for HF radio systems**
Kurdziel, M.T.; Furman, W.N.;
MILCOM 2002. Proceedings
Volume 2, 7-10 Oct. 2002 Page(s):1281 - 1285 vol.2
Summary: This paper presents a novel image compression technique coupled with three HF transmission schemes. The image compression scheme is based on a phase dispersion technique originally developed for the design of pulse compression radar waveforms. The te.....
AbstractPlus | Full Text: PDF(387 KB) IEEE CNF
Rights and Permissions

☐ **39. A media-access protocol for packet-switched wavelength division multiaccess metropolitan area networks**
Chen, M.-S.; Dono, N.R.; Ramaswami, R.;
Selected Areas in Communications, IEEE Journal on
Volume 8, Issue 6, Aug. 1990 Page(s):1048 - 1057
Digital Object Identifier 10.1109/49.57808
Summary: A dynamic time-wavelength division multiaccess protocol (DT-WDMA) is proposed for metropolitan-sized multichannel optical networks employing fixed wavelength transmitters and tunable optical receivers. Control information is sent over a dedicated sig.....
AbstractPlus | Full Text: PDF(812 KB) IEEE JNL
Rights and Permissions

☐ **40. Effect of Multipath on Ranging Error for an Airplane-Satellite Link**
Bello, P.; Boardman, C.;
Communications, IEEE Transactions on [legacy, pre - 1988]
Volume 21, Issue 5, May 1973 Page(s):564 - 576
Summary: An exact analysis is carried out on the effects of noise and surface scatter multipath on the one-way ranging errors of a singlesideband tone ranging modem used in an airplane-satellite link. With appropriate redefinition of parameters the results ar.....
AbstractPlus | Full Text: PDF(1056 KB) IEEE JNL
Rights and Permissions

☐ **41. End-to-End Blocking for Circuit-Switched Networks: Polynomial Algorithms for Some Special Cases**
Girard, A.; Ouimet, Y.;
Communications, IEEE Transactions on [legacy, pre - 1988]
Volume 31, Issue 12, Dec 1983 Page(s):1269 - 1273
Summary: Recursive algorithms for the computation of the end-to-end blocking in circuit-switched networks operating under very general routing schemes have recently been proposed and implemented, but with exponential upper bounds for their running time. For c.....
AbstractPlus | Full Text: PDF(552 KB) IEEE JNL
Rights and Permissions

☐ **42. On the resilience of SACK and newReno TCP**
Ye, Q.; MacGregor, M.H.;
Design of Reliable Communication Networks, 2003. (DRCN 2003). Proceedings. Fourth International Workshop on
19-22 Oct. 2003 Page(s):236 - 243
Digital Object Identifier 10.1109/DRCN.2003.1275362
Summary: The de facto requirement in traditional telephone networks is to restore failures in 50 milliseconds or less. The same standard has been assumed in data networks. In this study we consider the reaction of TCP to a failure in a continental-scale netwo.....
AbstractPlus | Full Text: PDF(1002 KB) IEEE CNF
Rights and Permissions

☐ **43. On a frame synchronization scheme for MC-CDMA systems in up-link asynchronous channels**
Kilsik Ha; Yong-Chang Seo; Choong-Woong Lee;
Vehicular Technology Conference, 1999. VTC 1999 - Fall. IEEE VTS 50th
Volume 1, 19-22 Sept. 1999 Page(s):193 - 197 vol.1
Digital Object Identifier 10.1109/VETECF.1999.797107
Summary: We propose a frame synchronization scheme for multi-carrier code division multiple access systems in up-link asynchronous channels. We introduce a time domain sequence called as TD (transform and despread) sequence utilizing user specific spreading c.....
AbstractPlus | Full Text: PDF(220 KB) IEEE CNF
Rights and Permissions

☐ **44. Application of neural networks to the adaptive routing control and traffic estimation of survivable wireless communication networks**
Hortos, W.S.;
Southcon/94. Conference Record
29-31 March 1994 Page(s):85 - 91
Digital Object Identifier 10.1109/SOUTHC.1994.498080
Summary: Problems of estimating and optimizing the behavior of wireless networks, based on the structure of a general stochastic model of the network's discrete-event dynamics, lead to mathematically correct, yet computationally intractable, backward recursiv.....
AbstractPlus | Full Text: PDF(712 KB) IEEE CNF
Rights and Permissions

☐ **45. C^3A design for a waterside security system**
Lougheed, J.H.; Clifton, R.W.;
Security Technology, 1988. Crime Countermeasures, Proceedings, Institute of Electrical and Electronics Engineers 1988 International Carnahan Conference on
5-7 Oct. 1988 Page(s):39 - 43
Digital Object Identifier 10.1109/CCST.1988.75987
Summary: A concept for effective waterside security has been developed and demonstrated. It is based on the integration of command, control, and communications with assessment (C^3A). Multiple detection and assessment devices are linked by computer,.....
AbstractPlus | Full Text: PDF(344 KB) IEEE CNF
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☐ **46. High-speed QPSK modulator and demodulator with subharmonic pumping**
Trambarulo, R.; Schneider, M.; Gans, M.J.;
Microwave Theory and Techniques, IEEE Transactions on
Volume 36, Issue 12, Dec 1988 Page(s):1714 - 1719
Digital Object Identifier 10.1109/22.17404
Summary: The authors describe a subharmonically pumped QPSK modulator and demodulator using pairs of beam-leaded Schottky diodes and appropriate high-pass and low-pass filters on dielectric substrates. A modulator and a demodulator were operated in cascade at.....
AbstractPlus | Full Text: PDF(476 KB) IEEE JNL
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☐ **47. Alternating cascade of spectrally different erbium-doped fiber amplifiers for link-loss-insensitive long-haul WDM transmission**
Nilsson, J.; Jaskorzynska, B.;
Lightwave Technology, Journal of
Volume 17, Issue 3, March 1999 Page(s):434 - 444
Digital Object Identifier 10.1109/50.749383
Summary: This paper numerically investigates a cascade of erbium-doped fiber amplifiers (EDFAs) with different spectral characteristics in an alternating scheme. Thereby, in a transmission band with appropriate spectral properties (1544-1550 nm), the sensitiv.....
AbstractPlus | References | Full Text: PDF(232 KB) IEEE JNL
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☐ **48. Analysis of a class of distributed asynchronous power control algorithms for cellular wireless systems**
Herdtner, J.D.; Chong, E.K.P.;
Selected Areas in Communications, IEEE Journal on
Volume 18, Issue 3, March 2000 Page(s):436 - 446
Digital Object Identifier 10.1109/49.840202
Summary: In cellular wireless communication systems, uplink power control is needed to provide each mobile user with an acceptable signal to interference ratio (SIR) while simultaneously minimizing transmit power levels. We consider a class of distributed asy.....
AbstractPlus | References | Full Text: PDF(256 KB) IEEE JNL
Rights and Permissions

☐ **49. Congestion pricing. Paying your way in communication networks**
Henderson, T.; Crowcroft, J.; Bhatti, S.;
Internet Computing, IEEE
Volume 5, Issue 5, Sept.-Oct. 2001 Page(s):85 - 89
Digital Object Identifier 10.1109/4236.957899
Summary: Network congestion is a fundamental problem facing Internet users today. A network where users are selfish, and thus reluctant to defer to other users, may result in the famous "tragedy of the commons", where, in the absence of controls, a shared res.....
AbstractPlus | References | Full Text: PDF(152 KB) IEEE JNL
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☐ **50. MediaWorm: a QoS capable router architecture for clusters**
Ki Hwan Yum; Eun Jung Kim; Das, C.R.; Vaidya, A.S.;
Parallel and Distributed Systems, IEEE Transactions on
Volume 13, Issue 12, Dec. 2002 Page(s):1261 - 1274
Digital Object Identifier 10.1109/TPDS.2002.1158264
Summary: With the increasing use of clusters in real-time applications, it has become essential to design high-performance networks with quality-of-service (QoS) guarantees. We explore the feasibility of providing QoS in wormhole switched routers, which are w.....
AbstractPlus | References | Full Text: PDF(2137 KB) IEEE JNL
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☐ **51. Engineering end-to-end IP resilience using resilience-differentiated QoS**
Autenrieth, A.; Kirstadter, A.;
Communications Magazine, IEEE
Volume 40, Issue 1, Jan. 2002 Page(s):50 - 57
Digital Object Identifier 10.1109/35.978049
Summary: Network resilience is becoming a key issue in the design of IP-based multimedia and multiservice networks. The current discussion about IP network resilience centers around MPLS-based recovery mechanisms. Any well designed recovery strategy has to ta.....
AbstractPlus | References | Full Text: PDF(1850 KB) IEEE JNL
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☐ **52. A comparison of bit and symbol interleaving in MMSE turbo-equalization**
Dejonghe, A.; Vandendorpe, L.;
Communications, 2003. ICC '03. IEEE International Conference on
Volume 4, 11-15 May 2003 Page(s):2928 - 2932 vol.4
Digital Object Identifier 10.1109/ICC.2003.1204573
Summary: The purpose of this paper is to compare bit and symbol interleaving in turbo-equalization (TE) schemes. Considering a single binary encoder and memoryless mapper, the corresponding transmission schemes are respectively bit-interleaved coded modulatio.....
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☐ **53. Block spreading for MUI/ISI-resilient generalized multi-carrier CDMA with multirate capabilities**
Zhengdao Wang; Giannakis, G.B.;
Communications, 2000. ICC 2000. 2000 IEEE International Conference on
Volume 3, 18-22 June 2000 Page(s):1477 - 1481 vol.3
Digital Object Identifier 10.1109/ICC.2000.853742
Summary: The potential increase in capacity along with the need to provide multimedia services and cope with multiuser interference (MUI) and intersymbol interference (ISI) arising due to wireless multipath propagation, motivate well multirate wideband code-d.....
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☐ **54. FM-to-AM Converter for Satellite Direct Broadcast TV**
Weinberger, H.L.;
Consumer Electronics, IEEE Transactions on
Volume CE-21, Issue 4, Nov. 1975 Page(s):404 - 409
Digital Object Identifier 10.1109/TCE.1975.266675
Summary: In certain television applications, such as direct broadcast from satellites or interconnection between microwave links and CATV head ends, the received signal is on an FM carrier, while the ultimate user has a home television receiver which is desig.....
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☐ **55. Fiberoptic circuit network design under reliability constraints**
Gavish, B.; Trudeau, P.; Dror, M.; Gendreau, M.; Mason, L.;
Selected Areas in Communications, IEEE Journal on
Volume 7, Issue 8, Oct. 1989 Page(s):1181 - 1187
Digital Object Identifier 10.1109/49.35563
Summary: A general mathematical model for a network design problem with reliability constraints and a revised formulation which seems particularly appropriate for fiber-optics networks is presented. Upper and lower bounding procedures based on continuous rela.....
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☐ **56. Optimal sequences, power control, and user capacity of synchronous CDMA systems with linear MMSE multiuser receivers**
Viswanath, P.; Anantharam, V.; Tse, D.N.C.;
Information Theory, IEEE Transactions on
Volume 45, Issue 6, Sept. 1999 Page(s):1968 - 1983
Digital Object Identifier 10.1109/18.782119
Summary: There has been intense effort in the past decade to develop multiuser receiver structures which mitigate interference between users in spread-spectrum systems. While much of this research is performed at the physical layer, the appropriate power cont.....
AbstractPlus | References | Full Text: PDF(348 KB) IEEE JNL
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☐ **57. Grey-based power control for DS-CDMA cellular mobile systems**
Szu-Lin Su; Yu-Che Su; Jen-Fa Huang;
Vehicular Technology, IEEE Transactions on
Volume 49, Issue 6, Nov. 2000 Page(s):2081 - 2088
Digital Object Identifier 10.1109/25.901877
Summary: The propagation channel of a mobile radio system exhibits severe signal shadowing and multipath fading, which results in wide variation of signal-to-interference ratio (SIR) at the receiver. To tackle this problem, power control is used to maintain t.....
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☐ **58. Dropout-tolerant read channels**
Sarigoz, F.; Hongwei Song; Kumar, B.V.K.V.; Bain, J.A.;
Selected Areas in Communications, IEEE Journal on
Volume 19, Issue 4, April 2001 Page(s):744 - 755
Digital Object Identifier 10.1109/49.920182
Summary: Dropouts are intermittent losses of signal commonly seen in magnetic tape recording readout. The main reason for such losses is the increased spacing between the head and the medium due to media defects or debris particles. The resulting signal is no.....
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☐ **59. Application level multicast in hierarchical topology**
Pi RenJie; Song JunDe; Hong Li iong;
Electrical and Computer Engineering, 2003. IEEE CCECE 2003. Canadian Conference on
Volume 2, 4-7 May 2003 Page(s):805 - 808 vol.2
Digital Object Identifier 10.1109/CCECE.2003.1226017
Summary: A application level multicast approach, hierarchical topology grouping (HTG), which exploits high level topology and IP address allocation information to build efficient overlay networks in a hierarchical topology is proposed. The topology is based o.....
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☐ **60. A theoretical framework for selecting the cost function for source routing**
Gang Cheng; Ansari, N.;
Communications, 2003. ICC '03. IEEE International Conference on
Volume 1, 11-15 May 2003 Page(s):631 - 635 vol.1
Digital Object Identifier 10.1109/ICC.2003.1204252
Summary: Finding a feasible path subject to multiple constraints in a network is an NP-complete problem and has been extensively studied. Many proposed source routing algorithms tackle this problem by transforming it into the shortest path selection problem, ...
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☐ **61. Channel estimation with hard limiter receiver as key technology for low cost wireless systems**
Althaus, F.; Wittneben, A.;
Communications, 2003. ICC '03. IEEE International Conference on
Volume 5, 11-15 May 2003 Page(s):3256 - 3260 vol.5
Digital Object Identifier 10.1109/ICC.2003.1204041
Summary: Future wireless indoor network applications require technologies that allow high data rate transmission in multipath propagation environment. The acceptance of new technologies will depend essentially on the expense of its realization. A key technolo.....
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☐ **62. ASSISS: an active semi-structured scientific information sharing system**
Shek, E.C.; Kaestle, G.; Dao, S.K.;
Scientific and Statistical Database Management, 1999. Eleventh International Conference on
28-30 July 1999 Page(s):279
Digital Object Identifier 10.1109/SSDM.1999.787646
Summary: The main concept behind our approach to scientific information sharing is to capture scientific experiments in hypermedia documents as the basic unit of information exchange. We defined SEML (Scientific Experiment Markup Language), based on the XML s.....
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☐ **63. Characterization of Failures in an Operational IP Backbone Network**
Markopoulou, A.; Iannaccone, G.; Bhattacharyya, S.; Chuah, C.-N.; Ganjali, Y.; Diot, C.;
Networking, IEEE/ACM Transactions on : Accepted for future publication
Volume PP, Forthcoming, 2003 Page(s):1 - 14
Digital Object Identifier 10.1109/TNET.2007.902727
Summary: As the Internet evolves into a ubiquitous communication infrastructure and supports increasingly important services, its dependability in the presence of various failures becomes critical. In this paper, we analyze IS-IS routing updates from t.....
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☐ **64. Coherent optical CDMA networks**
Marhic, M.E.;
Lightwave Technology, Journal of
Volume 11, Issue 5, May-June 1993 Page(s):854 - 864
Digital Object Identifier 10.1109/50.233249
Summary: Recent work in optical code-division multiple access (CDMA) is reviewed, progressing from incoherent to coherent techniques. It is shown that under appropriate conditions, coherent CDMA can in principle rival wavelength-division multiplexing (WDM) in.....
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☐ **65. Multichannel ASK system design influenced by significant laser phase noise**
Jacobsen, G.;
Electronics Letters
Volume 27, Issue 19, 12 Sept. 1991 Page(s):1741 - 1743
Digital Object Identifier 10.1049/el:19911083
Summary: Results from an improved bit-error-rate analysis appropriate to heterodyne ASK receivers influenced by an interfering optical channel are reported. The analysis takes into account the effects of receiver noise and phase noise. The leading order influ.....
AbstractPlus | Full Text: PDF(302 KB) IET JNL

☐ **66. An approach to the quantification of delay variation effects on live audio streams**
Loukatos, D.; Zoi, V.; Stathopoulos, P.; Roustas, A.; Mitrou, N.;
Telecommunications, 2003. ICT 2003. 10th International Conference on
Volume 1, 23 Feb.-1 March 2003 Page(s):536 - 542 vol.1
Digital Object Identifier 10.1109/ICTEL.2003.1191466
Summary: The aim of the paper is to propose an approach to studying delay variation effects on live voice streams and mapping them to quantifiable parameters. A suitable performance evaluation framework is defined within which an appropriate metric, based on .....
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☐ **67. On designing the optimal template waveform for UWB impulse radio in the presence of multipath**
Taha, A.; Chugg, K.M.;
Ultra Wideband Systems and Technologies, 2002. Digest of Papers. 2002 IEEE Conference on
21-23 May 2002 Page(s):41 - 45
Digital Object Identifier 10.1109/UWBST.2002.1006315
Summary: Using an appropriate template waveform matched to the received signal allows the energy of the received signal to be extracted efficiently. This efficiency becomes vital for ultra wide bandwidth (UWB) impulse radio in the presence of multipath, where.....
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